

IN THE CLAIMS:

Please amend the claims as follows:

1. (Cancelled)
2. (Currently amended) ~~The light-transmitting module according to claim 1~~ A light-transmitting module, comprising:

a stack of a metallic block, an insulating heat sink mounted on said metallic block and an electrically conductive layer formed on said insulating heat sink, said stack forming a parallel-plate capacitor with capacitance; and

a laser diode having an anode and a cathode, said laser diode being mounted on said conductive layer such that said anode faces and is in contact with said conductive layer,

wherein a capacitance of said parallel-plate capacitor is at least 50 pF.
3. (Currently amended) The light-transmitting module according to ~~claim 1~~ claim 2,

wherein said laser diode includes an n-type substrate and a plurality of epitaxial layers of an n-type cladding layer, an active layer, and a p-type cladding layer grown on said n-type substrate, said p-type cladding layer corresponding to said anode and said n-type substrate corresponding to said cathode, said laser diode being mounted on said conductive layer such that said plurality of epitaxial layers faces and is in contact with said conductive layer.
4. (Currently amended) The light-transmitting module according to ~~claim 1~~ claim 2,

wherein said laser diode ~~includes an~~ includes a p-type substrate and a plurality of epitaxial layers of a p-type cladding layer, an active layer, and an n-type cladding layer grown on said p-type substrate, said n-type cladding layer corresponding to said cathode and said p-type substrate corresponding to said anode, said laser diode being mounted on said conductive layer such that said p-type substrate faces and is in contact with said conductive layer.
5. (Currently amended) The light-transmitting module according to ~~claim 1~~ claim 2,

further ~~comprises~~ comprising a driver for driving said laser diode, said driver being mounted on said ~~conductive~~ metallic block.

6. (Canceled)

7. (Currently amended) ~~The light-transmitting module according to claim 6~~ A light-transmitting module, comprising:

a stack of an electrically conductive heat sink, an insulating layer provided on said heat sink and an electrically conductive layer, said stack forming a parallel-plate capacitor with capacitance; and

a laser diode having an anode and a cathode, said laser diode being mounted on said conductive layer such that said anode faces and is in contact with said conductive layer,

wherein a capacitance of said parallel-plate capacitor is at least 50 pF.

8. (Currently amended) ~~The light-transmitting module according to claim 6~~ claim 7,

wherein said laser diode includes an n-type substrate and a plurality of epitaxial layers of an n-type cladding layer, an active layer, and a p-type cladding layer grown on said n-type substrate, said p-type cladding layer corresponding to said anode and said n-type substrate corresponding to said cathode, said laser diode being mounted on said conductive layer such that said epitaxial layers faces and are in contact with said conductive layer.

9. (Currently amended) ~~The light-transmitting module according to claim 1~~ claim 7,

wherein said laser diode ~~includes an~~ includes a p-type substrate and a plurality of epitaxial layers of a p-type cladding layer, an active layer, and an n-type cladding layer grown on said p-type substrate, said n-type cladding layer corresponding to said cathode and said p-type substrate corresponding to said anode, said laser diode being mounted on said conductive layer such that said p-type substrate faces and is in contact with said conductive layer.

10. (Currently amended) ~~The light-transmitting module according to claim 6~~ claim 7,

wherein said heat sink is made of copper tungsten.

11. (Currently amended) The light-transmitting module according to ~~claim 6~~ claim 7,
wherein said heat sink is made of silicon.
12. (Currently amended) The light-transmitting module according to ~~claim 6~~ claim 7,
wherein said insulating layer is made of material selected from a group of silicon oxide,
silicon nitride, or silicon oxi-nitride.
13. (Currently amended) The light-transmitting module according to ~~claim 6~~ claim 7,
further ~~comprises~~ comprising an electrically conductive and grounded block, said heat
sink being mounted on said conductive block.
14. (Currently Amended) The light-transmitting module according to claim 13,
further ~~comprises~~ comprising a driver for driving said laser diode, said driver being
mounted on said conductive block.
15. (Currently amended) The light-transmitting module according to ~~claim 6~~ claim 7,
wherein said heat sink further includes a groove for securing an optical fiber.
16. (Original) The light-transmitting module according to claim 15,
wherein said heat sink further includes another groove for securing a ferrule, said optical
fiber being secured by said ferrule.
17. (Currently Amended) The light-transmitting module according to ~~claim 14~~ claim 13,
further ~~comprises~~ comprising a driver for driving said laser diode, said driver being
mounted on said heat sink.